



Attorney Docket No. 3556.224-US

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Uffe Loevborg

Confirmation No: 5207

Serial No.: 09/056,343

Group Art Unit: 1652

Filed: April 7, 1998

Examiner: W. Moore

For: Proteins with Changed Epitopes and Methods for the Production Thereof

**AMENDMENT UNDER 37 C.F.R. 1.116**

Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action mailed May 1, 2001, please amend the above-identified application as follows:

**IN THE ABSTRACT OF THE DISCLOSURE:**

Please add the attached abstract as page 39 of the specification.

**IN THE CLAIMS:**

Please cancel claims 40-47 without prejudice or disclaimer. Please add new claims 48-66:

48. A method for producing a DNA molecule encoding a variant of a reference protein having a known amino acid sequence, comprising

(a) mapping one or more epitopes of the reference protein with immunological and proteochemical techniques; and

(b) forming a DNA molecule encoding the amino acid sequence of the variant, which has an altered amino acid sequence of one or more epitopes of the reference protein, wherein the variant evokes a lower immunogenic response in an animal than the reference protein.

49. The method of claim 48, wherein the DNA molecule is formed by mutating a DNA molecule encoding the amino acid sequence of the reference protein to alter the amino acid sequence of one or more epitopes.

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